



(43) International Publication Date
6 May 2005 (06.05.2005)

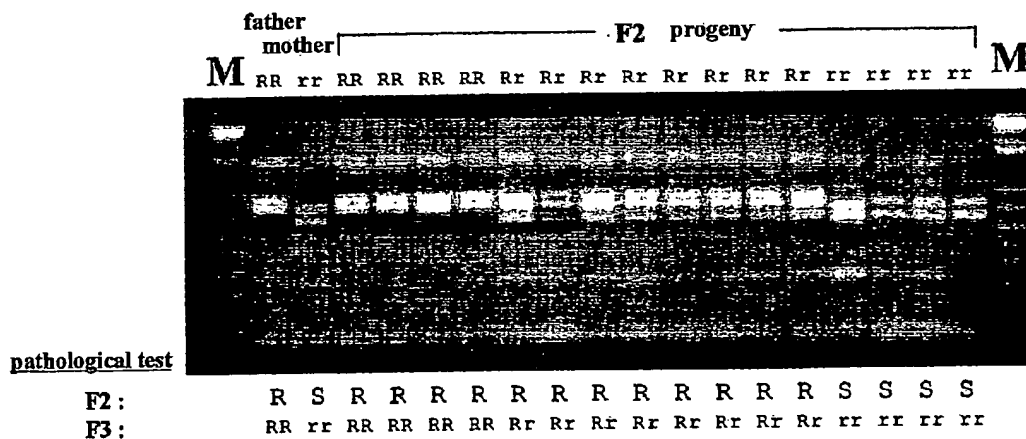
PCT

(10) International Publication Number
WO 2005/040426 A1

- (51) **International Patent Classification⁷:** C12Q 1/68,
C12N 15/00
- (21) **International Application Number:**
PCT/KR2004/002732
- (22) **International Filing Date:** 27 October 2004 (27.10.2004)
- (25) **Filing Language:** Korean
- (26) **Publication Language:** English
- (30) **Priority Data:**
10-2003-0075272 27 October 2003 (27.10.2003) KR
- (71) **Applicant (for all designated States except US):** FNP
CORP., LTD. [KR/KR]; 91-483, Chung-Buk Na-
tional University, San 48, Gaeshin-dong, Heungduk-gu,
Cheongju, Chungcheongbuk-do 136-791 (KR).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** KIM, Shinje
[KR/KR]; LD Kolon Apt. #105-1404, 890 Guun-dong,
Gwonseon-gu, Suwon, Gyeonggi-do 441-734 (KR).
HWANG, Ju-Kwang [KR/KR]; Hanjin Shinsaedae
Apt. #909, Gaesin-dong, Heungdeok-gu, Cheongju,
Chungcheongbuk-do 361-750 (KR). KIM, Goon-Bo
[KR/KR]; Dongwon Villa #102, 949-3 Guun-dong,
Gwonseon-gu, Suwon, Gyeonggi-do 441-340 (KR).
KIM, Su [KR/KR]; Bunpyeong Jugong 2-Dangee Apt.
- #213-905, Bunpyeong-dong, Heungdeok-gu, Cheongju,
Chungcheongbuk-do 361-201 (KR).
- (74) **Agent:** KIM, Seog-Hyun; 9th Floor, Daekyung Building,
2-ka, Taepyeong-ro, Chung-ku, Seoul 100-724 (KR).
- (81) **Designated States (unless otherwise indicated, for every
kind of national protection available):** AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) **Designated States (unless otherwise indicated, for every
kind of regional protection available):** ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

[Continued on next page]

- (54) Title: MOLECULAR MARKER ASSOCIATED WITH CMV RESISTANCE AND USE THEREOF**



- (57) Abstract:** The present invention relates to a cucumber mosaic virus (CMV) resistance-associated molecular marker and the use thereof, and more particularly to a nucleic acid consisting of nucleotide sequence having a very high association with the CMV-resistant character of plants, a primer comprising a partial nucleotide sequence of the nucleic acid, and a method for detecting CMV-resistant plants using the nucleic acid or the primer. The inventive molecular marker has advantages in that it can detect CMV-resistant plants in a rapid and precise manner without inoculating CMV directly into plants, and also can determine the genotype of CMV-resistant plants.

BEST AVAILABLE COPY



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.